

Key Products

The Qioptiq product range covers the complete spectrum of requirements for electro-optical modules and complex optical components for Airborne, Land, and Naval applications.

Infrared search and track

A very high performance multi role, electro-optical system designed to operate in unusually hostile environments in the far IR waveband. The smallest and most compact in its class.

Multi-waveband missile and laser warners

Designed for a number of applications where the optical modules must be compact and lightweight, and where "Stray light" must be minimised.

UAV's

Extensive short compact high performance range of continuous zoom telescopes such as Zulu, with a magnification range of x2.5 to x10.

Gimbal mounted observation and weapon aiming for rotary and fixed wing platforms

Razor. Compact "Folded" imaging optical modules operating in both the mid and long IR wavelengths. Capable of being configured for a large range of different detectors.

Conformal and non-conformal complex windows and domes

Suitable for multiple applications such as navigational and target acquisition pods.

Fire control and observation electro-optical modules for AFV's

A range of optical modules for a variety of AFV's. Designed to meet the tough environmental requirements of these platforms where very tight bore-sight retention under all conditions is essential.

Primary missile guidance optical modules for both vehicle and shoulder launched missiles

Sole supplier to a major US programme where to date 1500+ IR telescopes have been delivered.

Qioptiq also provide the optics for a number of "Command line-of-sight units" (CLU's), and are the ONLY alternative manufacturer qualified to supply these items.

Missile seekers and domes for both ground launched and air-drop munitions

Sole supplier to a number of major "Primes" both in the US and Europe. Our innovative approach to design and manufacture has meant that Qioptiq is able to offer unique solutions to these demanding requirements.

IR objectives for thermal weapon sights

We provide a range of uncooled IR objectives for a number of major US and European programmes. Designed to be extremely cost competitive but retaining very high "Key" performance parameters. Qioptiq has the capability to produce in excess of 1000 per month.

Compact high performance eyepiece modules for TWS

The smallest most compact and lightest eyepiece in its class, yet providing extremely high resolution.

Target acquisition and weapon aiming electro-optical modules for surface ships

Very high performance large aperture long-wave electro-optical afocal telescope for a number of programmes including "Close-in weapon system" for fleet protection.

IR and visible telescopes and relays

Complete range of electro-optical modules for the latest non-hull penetrating optronic masts. Designed and manufactured to withstand the exacting requirements of submarine applications.

Qioptiq is your partner when you have an electro-optical requirement. We can work with your team from concept through design and prototypes to full rate production.

Our opto-mechanical design team has 100's of years of experience in solving complex optical problems and providing innovative design solutions. Our in-house, optical thin film coating, machining, assembly and test facilities utilise the latest equipment and techniques to supply a cost effective solution for your product.

We have an on-going investment programme in equipment, technology and processes to support our leading edge customers.

Qioptiq is your partner for electro-optical solutions.

TACTICAL INFRARED THE FOREFRONT OF OPTICAL TECHNOLOGY

QIOPTIQ
Optics with Intelligence



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With a worldwide reputation for design innovation and manufacturing excellence, Qioptiq has been at the forefront of optical technology for more than three decades.

The Tactical Infrared Group is dedicated exclusively to the design, development and supply of bespoke optical modules, providing leading edge optical solutions for the most demanding of military and aerospace applications:

- Thermal Imaging Lens Modules
- Surveillance
- Navigation
- Target Acquisition
- Missile Tracking
- Missile and Laser Warner

A flexible approach during design is matched with an unparalleled capability across the visible to infrared wavebands, providing integrated optical solutions with any sensor technology currently available.

With a combination of dynamic engineering talent, manufacturing expertise, motivation and reputation, Qioptiq has the total capability to provide the most innovative and focused optical solutions to today's technological challenges. This strategic approach has made Qioptiq the preferred choice for a wide variety of prime contractors and military establishments around the world.

The Tactical Infrared optical design team is one of the largest in Europe, renowned worldwide for its proven expertise. Qioptiq

regularly contributes to the Optical Society of America (OSA) Handbook on Optics.

Extensive use is made both of in-house developed and commercial software for optical design, analysis and tolerancing of new designs. The Pro Eng 3D system is linked via CAD/CAE facilities to allow full integration between optical and mechanical design, enabling efficient development of optimum design solutions. This is supported by a world leading finite element analysis capability and one of the largest, most advanced state-of-the-art manufacturing (including diamond turning and CNC optics production) facilities in the world.

The Qioptiq facility also provides an economic solution to customer build-to-print requirements.

The full product range is supported by a complete in-house Integrated Logistic Support capability, embracing the company-wide target of total customer satisfaction.

The Qioptiq Tactical Infrared Group has a truly world-class total capability providing the most cost effective and innovative solutions for the most complex of optical systems.

A World of Experience

Producing more than a thousand different advanced optical modules for customers in more than 30 different countries each year, Qioptiq has demonstrated a dynamic presence in satisfying the widest range of technical and commercial challenges.

With optical solutions provided for use in either of the IR (3-5 or 8-12 micron), together with multi-spectral and visible wavebands, Qioptiq has designed some of the highest performing and sophisticated optics available today. These include optics for inter-satellite communications and ultra-precision targeting in extreme environments.

In addition, Qioptiq is a world leader in the design of compact zoom and multiple field-of-view infrared lenses. Advanced opto-mechanical and electronic designs utilise the latest micro-processing technology to ensure focus athermalisation and boresight retention can be maintained even in the harshest of environmental conditions. Qioptiq is the worlds' authority in the athermalisation of infrared optics.

Innovation

With world class capability in design, coupled with international award winning technical achievement, Qioptiq has demonstrated repeatedly an ability to convert technical innovation into producible cost-effective designs. Innovation has long been recognised to be the key attribute of the success of Qioptiq.